

DuPont™ Zytel® LC6210 BK010

NYLON RESIN

Product Information

DuPont™ Zytel® LCPA long chain polyamide resins provide an innovative and growing portfolio of flexible polymers with excellent thermal, chemical, and hydrolysis resistance. The diverse selection of Zytel® LCPA grades is targeted for a range of performance characteristics, balancing temperature resistance, flexibility and low permeation.

Zytel® LC6210 BK010 is a toughened polyamide 612 resin for extrusion applications.

General information	Value	Unit	Test Standard
Resin Identification	PA612-HI	-	ISO 1043
Part Marking Code	PA612-HI	-	ISO 11469
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	1100 / 750	MPa	ISO 527-1/-2
Yield stress	33 / 29	MPa	ISO 527-1/-2
Yield strain	12 / 30	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Strain at Break, 23°C, 50mm/min	100 / 285	%	ISO 527-1/-2
Charpy notched impact strength			ISO 179/1eA
73°F	35 / 80	kJ/m ²	
-22°F	13 / 12	kJ/m ²	
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 18°F/min	216 / *	°C	ISO 11357-1/-3
Temp. of deflection under load			ISO 75-1/-2
260 psi	47 / *	°C	
65 psi	83 / *	°C	
Flammability	Value	Unit	Test Standard
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)
Other properties	dry / cond	Unit	Test Standard
Humidity absorption, 80mil	0.65 / *	%	Sim. to ISO 62
Density	1010 / -	kg/m ³	ISO 1183
Extrusion	Value	Unit	Test Standard
Drying Temperature	75 - 80	°C	-
Drying Time, Dehumidified Dryer	3 - 4	h	-
Processing Moisture Content	≤0.06	%	-
Melt Temperature Optimum	240	°C	-
Melt Temperature Range	235 - 250	°C	-

Characteristics

Processing	• Injection Molding	• Profile Extrusion	• Other Extrusion
Delivery form	• Pellets		
Special characteristics	• U.V. stabilized or stable to weather	• Heat stabilized or stable to heat	
Regional Availability	• North America • Europe	• Asia Pacific • South and Central America	• Near East/Africa • Global

To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

North America

Asia Pacific

Europe/Middle East/Africa

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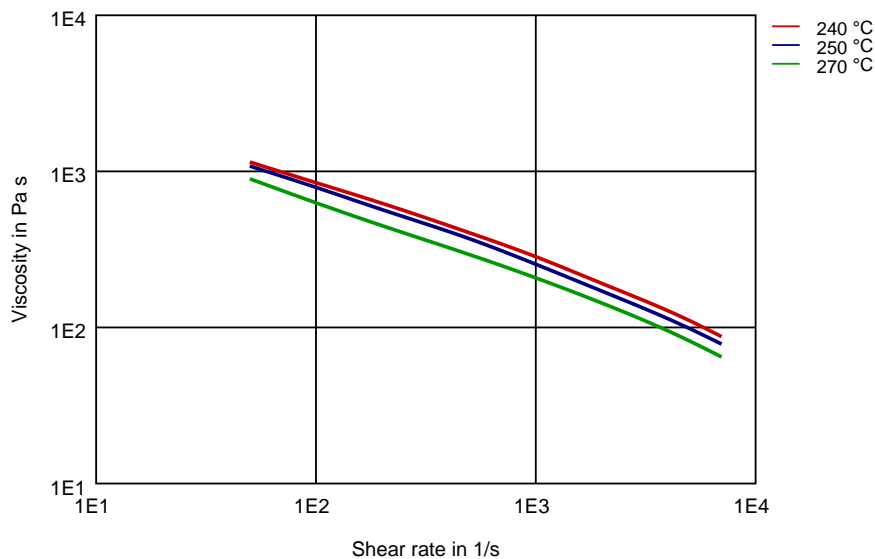


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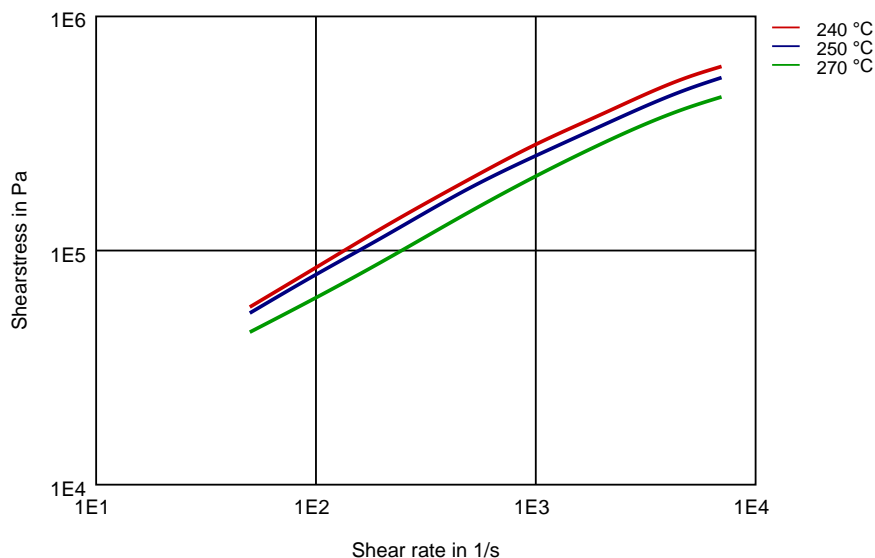
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Diagrams

Viscosity-shear rate



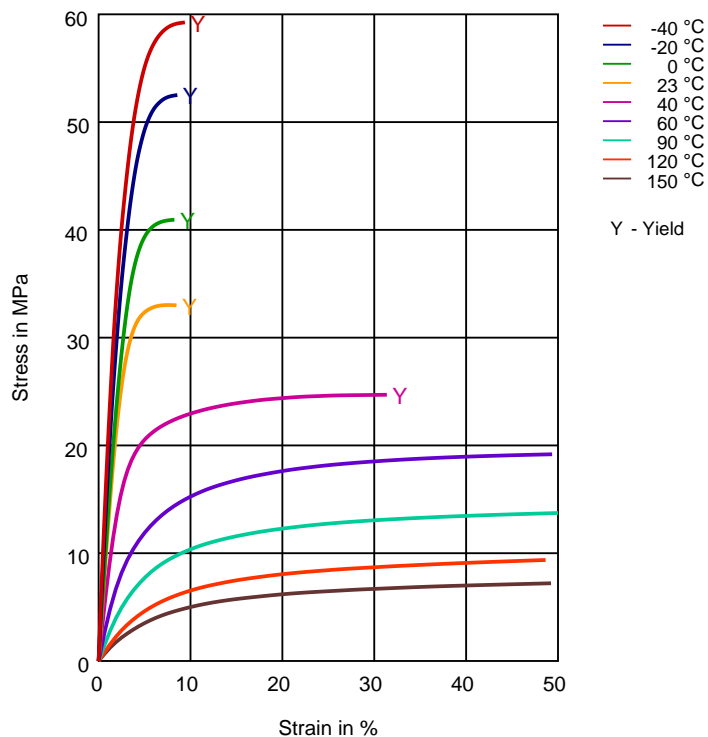
Shearstress-shear rate



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Stress-strain (dry)



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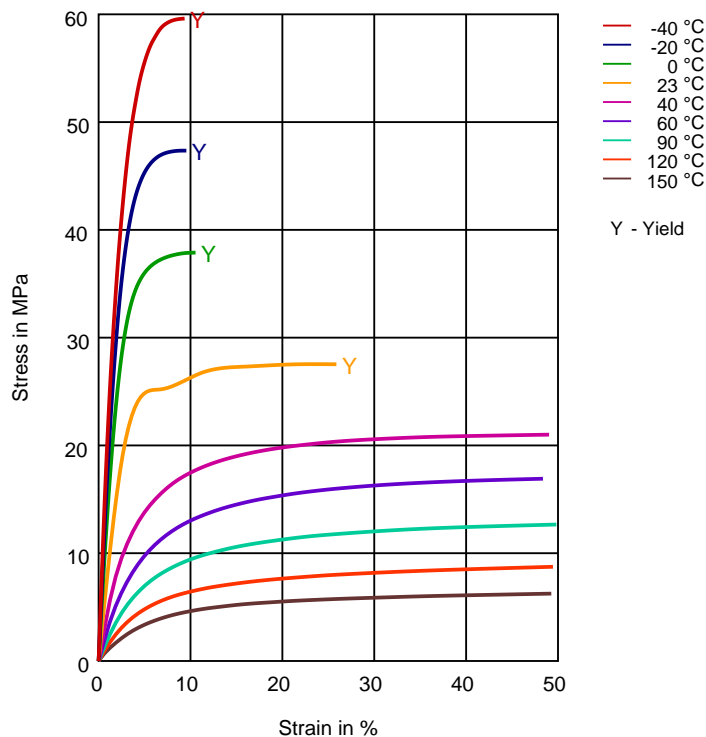
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Stress-strain (cond.)



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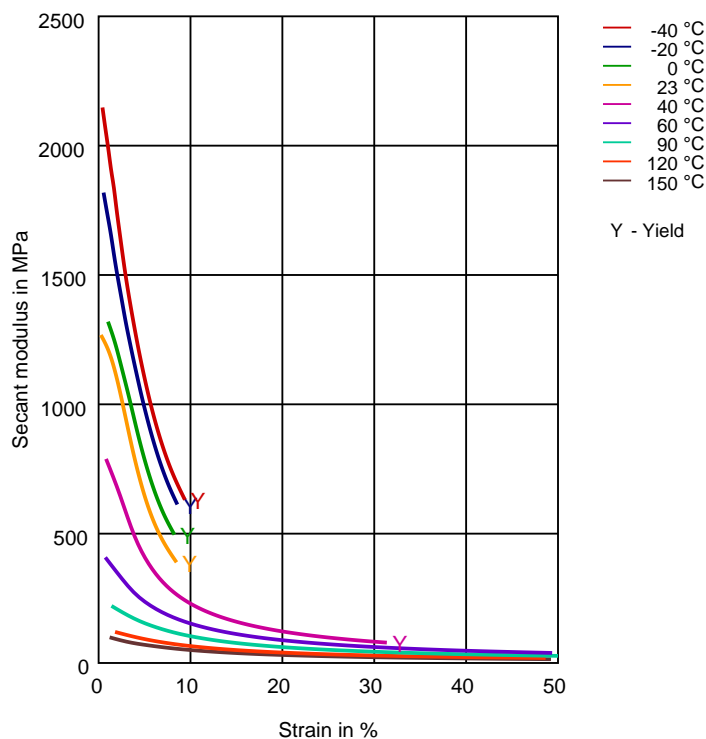
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Secant modulus-strain (dry)



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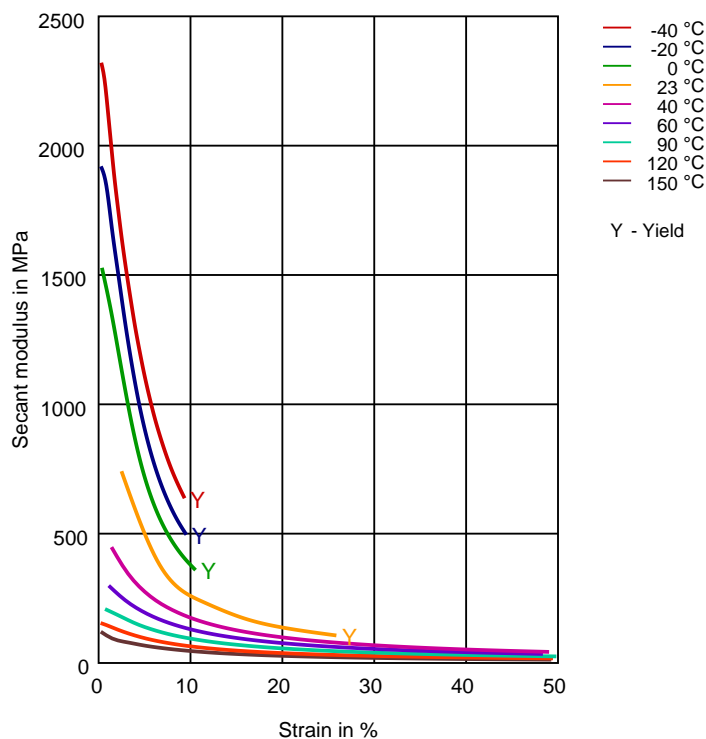
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Secant modulus-strain (cond.)



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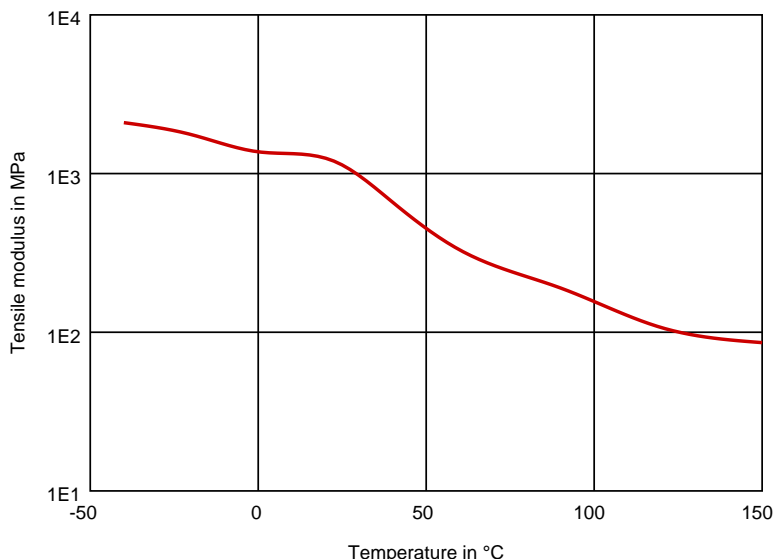
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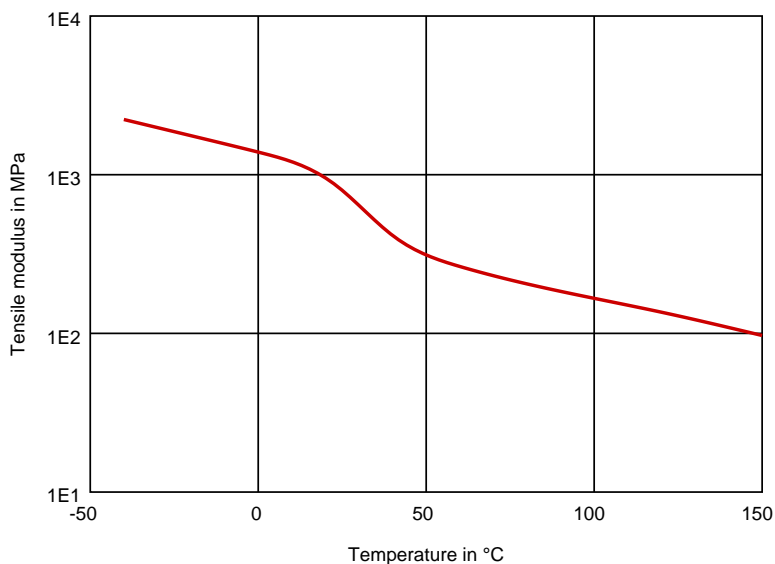
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Tensile modulus-temperature (dry)



Tensile modulus-temperature (cond.)



Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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